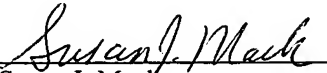


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REMARKS

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,


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APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows:

Table on page 21:

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Table on page 22:

191	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{O})_2(\text{CH}_2)_2\text{S}(\text{O})_2$	cyclohexyl	methyl	α	α
192	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{O})_2(\text{CH}_2)_2\text{S}(\text{O})_2$	cyclohexyl	hydrogen	α	α
193	α -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	cyclohexyl	methyl	α	α
194	α -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	cyclohexyl	hydrogen	α	α
195	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	cyclopentyl	hydrogen	α	α
196	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	cycloheptyl	hydrogen	α	α
197	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	cyclopentylmethyl	hydrogen	α	α
198	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	cyclohexylmethyl	hydrogen	α	α
199	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	(R)-2-methylhexyl	hydrogen	α	α
200	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	(S)-2-methylhexyl	hydrogen	α	α
201	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	(R)-2,6-dimethyl-5-heptenyl	hydrogen	α	α
202	β -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	(S)-2,6-dimethyl-5-heptenyl	hydrogen	α	α
203	α -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	(R)-2-methylhexyl	hydrogen	α	α
204	α -Cl	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	(S)-2-methylhexyl	hydrogen	β	β
205	F	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	(R)-2,6-dimethyl-5-heptenyl	hydrogen	α	α
206	F	$\text{CH}\equiv\text{CH}$	0	$\text{S}(\text{CH}_2)_2\text{S}$	(S)-2,6-dimethyl-5-heptenyl	hydrogen	α	α

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Pages 25, partial paragraph at the top of page 25:

2930,2850,~~1375~~1735,1640,1470,1380,1255,830,770

Page 34, second full paragraph:

4-Thia-16,17,18,19,20-pentano-15-cyclohexyl-13,14-didehydro-PGF₁β ethyl ester 11,15-bis(tert-butyl dimethylsilyl ether)

¹H-NMR(CDCl₃,200MHz)δppm;

0.07(s,3H),0.08(s,6H),0.11(s,3H),0.82-1.98(m,19H), 0.88(s,9H),0.90(s,9H),1.27(t,J=7.1Hz,3H),2.17-2.86(m,5H), 2.60(t,J=6.8Hz,2H),3.93-4.28(m,2H),4.08(dd,J=6.4,1.8Hz,1H), 4.16(q,J=7.1Hz,2H)

IR(neat):

3458,2929,2854,1739,1639,1472,1371,1342,1250,1065,898, 837,777,670

Page 37, partial paragraph at the top paragraph:

¹H-NMR(CDCl₃,200MHz)δppm;

0.00(s,3H),0.01(s,3H),0.04(s,3H),0.07(s,3H),0.73-1.89(m,11H),0.88(s,9H),0.90(s,9H),2.33(dd,J=17.9,6.3Hz,1H),2.65(dd,J=17.9,6.3Hz,1H),3.27-3.91(m,2H),4.07-4.20(m,1H),5.25(dd,J=2.5,1.0Hz,1H),5.47(ddd,J=15.9,7.2,0.8Hz,1H),5.61(dd,J=15.5,5.1Hz,1H),6.12(dd,J=2.9,1.0Hz,1H)

IR(neat) cm⁻¹;

2954,2929,2856,1734,1642,1472,1451,1388,1361,1253,1113,
1071,1006,973,943,923,900,837,776,690

Page 44, first full paragraph:

(1) Following the substantially same manner as in Example 1(2) using methyl 5-mercapto-3-oxapentanoate in place of methyl 5-mercaptopentanoate in Example 1(2), thereby 3-oxa-6-thia-16,17,18,19,20-pentano-15-cyclohexyl-13,14-didehydro-PGE₁ methyl ester 11,15-bis(tert-butyl dimethylsilyl ether) was obtained.

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$^1\text{H-NMR}(\text{CDCl}_3, 200\text{MHz})\delta\text{ppm};$

0.08(s,3H),0.09(s,3H),0.10(s,3H),0.13(s,3H),0.82-

1.92(m,1H),0.89(s,9H),0.90(s,9H),2.22(dd,J=18.0,6.4Hz, 1H),2.40-2.82(m,2H),2.77(t,J=6.7Hz,2H),

2.92(d,J=5.9Hz,2H), 3.09-3.20(m,1H),3.71(t,J=6.7Hz,2H), 3.76(s,3H),

4.08(dd,J=6.2,1.8Hz,1H),4.13(s,2H),4.28-4.42(m,1H)

IR(neat) cm^{-1} ;

2930,2855,2236,1752,1472,1464,1451,1390,1362,1252,1208,

1138,1066,1006,940,898,837,779,670,579

Page 49, first full paragraph:

(54) Following the substantially same manner as in Example 1(5) using the compound obtained in the above (43), thereby the title compound was obtained.

$^1\text{H-NMR}(\text{CDCl}_3, 200\text{MHz})\delta\text{ppm};$

0.98-2.02(m,13H),2.22-2.47(m,3H), 2.62(ddd,J=10.1,6.4,1.8Hz,1H),2.75-2.99(m,6H),

3.28(s,2H),3.76(s,3H),4.10(m,2H),4.06-4.27(m,2H),4.32-4.47(m,1H)

IR(neat) cm^{-1} ;

3400,2925,2852,2236,1734,1730,1436,1284,1203,1142,1083, 1008,893,833,773,692,578